APPENDIX C RECAP FORMS

RECAP FORMS

RECAP FORM 1	Submittal Summary
RECAP FORM 2	Soil Analytical Data Summary
RECAP FORM 3	Groundwater Analytical Data Summary
RECAP FORM 4	Groundwater Monitoring Well Characteristics
RECAP FORM 5	Groundwater Monitoring Well Sampling Event Summary
RECAP FORM 6	Screening Option Summary for Soil
RECAP FORM 7	Management Option Summary for Soil 0-15 ft bgs
RECAP FORM 8	Management Option Summary for Soil > 15 ft bgs
RECAP FORM 9	Screening Option Summary for Groundwater
RECAP FORM 10	Management Option Summary for Groundwater
RECAP FORM 11	Ecological Checklist
RECAP FORM 12	NFA-ATT Documentation

RECAP FORM 1 RECAP SUBMITTAL SUMMARY

A completed RECAP Submittal Summary form shall be included as the first page of the RECAP Submittal.

2. Agency Interest Name:
B. Name of Area of Investigation: 4. Facility Owner Name:
5. Facility Owner Mailing Address:
5. Facility Operator Name:
7. Facility Operator Mailing Address:
3. Facility Physical Address:
D. Parish:
0. Latitude/Longitude of Primary Facility Entrance:
1. Latitude/Longitude Method:
2. Facility Contact Person:
3. Facility Contact Person's Phone Number:
4. Facility Contact Person's Mailing Address:
5. Facility Contact Person's E-mail Address:
6. Area of Investigation Location:
17. Area of Investigation Size:
8. Horizontal and Vertical Extent of the Area of Investigation has been identified? [] Yes [] No
9. Describe the Current and Historical Uses of the Property on which the AOI is located and the Time Periods for Each Use/Activity:
20. Indicate How Release Occurred (if known):
21. List Constituents Released (if known):

22	. RECAP Submittal Date:
23	. RECAP Submittal Prepared by:
24	. RECAP Submittal Preparer's Employer:
25	. RECAP Submittal Preparer's Phone Number:
26	. Briefly summarize the data evaluation results and any data useability issues identified:
27	. Media Impacted: [] Surface Soil
28	. Is NAPL Present? [] Yes [] No
29	. Release volume:
30	. Distance and direction from AOC/AOI to the nearest downgradient property boundary:
31	. Distance and direction from AOC/AOI to the nearest downgradient surface water body serving as the GW3 POE (if applicable):; Name of downgradient surface water body, or if unnamed, the nearest named downgradient receiving surface water body:
32	. Depth from known contamination to the nearest Groundwater Classification 1 aquifer:
33	. If a GW 1 or 2 aquifer, distance from POC to nearest downgradient drinking water wells:
34	. Distance and direction from known contamination to nearest enclosed occupied structure:
35	. Depth Groundwater First Encountered:
36	Aquifer Yield (gpd):
37	. [] GW2 [] GW3 Distance from POC to POE:
38	. [] GW2 [] GW3 Source size: Sd: L: Sw:
39	. [] GW2 [] GW3 Dilution Factor Applied:
40	. Percent Organic Matter/Fractional Organic Carbon (foc) Content:

41. Location and D	epth of foc sample	:	2/4					
42. List all site-spec evaluation (i.e., list								
43. Current Land Us	se: [] Non-	Industrial []	Indus	strial NAICS	S:			
44. Potential Future	Land Use: [] N	on-Industrial	[] Iı	ndustrial NAICS	S:			
45. Is There Offsite	Contamination? [] Yes [] No)					
(a) If Yes,	Land Use Offsite:	[] Non-Indu	ıstrial	[] Industrial	N	AICS: _		
(b) If Yes,	Identify the Lando	wner(s), Lessee	(s), aı	nd/or Servitude Hol	der(s):		
46. Management Op Category:47. Summary of Hig	_						D-3	[] Appendix H
COC		IC (mg/kg)		Limiting Standar	rd			Does AOIC Exceed
	Maximum	95%UCL-AM	1	(mg/kg)		Option Applie		Limiting Standard?
	<u> </u>					<u> </u>		
COC		ndwater CC (mg/l)	L	imiting Standard (mg/l)		otion oplied]	Does CC Exceed Limiting Standard?
				, ,				
			<u> </u>					
Other Media:								
COC		or Exposure centration	L	Limiting Standard		Option Applied		the Limiting Standard Exceeded?
			_		-			
			+-		t			

(a)	Media requiring remediation:	
	[] Surface Soil [] Subsurface Soil	
	rrective Action Standards: [] Nor	
(c) Ins	titutional Controls Are Proposed?	[] Yes [] No [] Institutional Controls Already Pre
(c) Inst If y If a	titutional Controls Are Proposed? res, type of institutional control prop	[] Yes [] No [] Institutional Controls Already Preposed or being employed:
(c) Institute If y If a not	titutional Controls Are Proposed? res, type of institutional control properties, the conveyance notice having that the AOI was closed under it	[] Yes [] No [] Institutional Controls Already Preposed or being employed:
(c) Institute If y If a not (d) Into	titutional Controls Are Proposed? res, type of institutional control properties, the conveyance notice having that the AOI was closed under it	[] Yes [] No [] Institutional Controls Already Preposed or being employed: (parish) Clerk of andustrial standards.

4/4

RECAP FORM 2 SOIL ANALYTICAL DATA SUMMARY

DATE:	PAGE of
SITE NAME/AI #:	
SITE PHYSICAL ADDRESS:	
AOI:	

Boring ID	Sample ID	Depth Interval	Sample Date	Headspace Reading	COC ₁ (mg/kg)	COC ₂ (mg/kg)	COC ₃ (mg/kg)	COC ₄ (mg/kg)	COC _i (mg/kg)
		22202 / 662			((8/8/	(8/8/	(8/8/	(8/8/
				<u> </u>					
				oncentration:					
		M		oncentration:					
				% UCL-AM:					
		Lin	iting RECA	AP Standard:			ĺ		

RECAP FORM 3 GROUNDWATER ANALYTICAL DATA SUMMARY 1

DATE:	_			PAGE	of		
SITE NAME/AI	#:						
SITE PHYSICAL ADDRESS:							
AOI:							
Monitoring	TOC Elevation	Depth to	Depth to	Product	Corrected	COC ₁	

Monitoring Well No. and Sampling Date	TOC Elevation (feet)	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Corrected Groundwater Elevation (feet)	COC ₁ (mg/l)	COC ₂ (mg/l)	COC ₃ (mg/l)	COC _i (mg/l)
				oncentration:					
				oncentration:					
			Limiting RECA						
	If a C	W3 Zone, 95	5%UCL-AM (Conentration:					

¹Include historical data to the most recent data for each well

RECAP FORM 4 GROUND WATER MONITORING WELL CHARACTERISTICS

Page __ of ___

Site Name:								
Monitoring Well Characteristics								
SITE MONITORING WELL NO.								
PERMIT NUMBER/AUTHORIZATION								
DNR I.D.								
LATITUDE								
LONGITUDE								
LAT/LONG METHOD								
UNIT/AREA MONITORED								
WELL LOCATION								
WELL TYPE								
WELL STATUS								
GRADIENT								
CASING DIAMETER (INCHES)								
CASING MATERIAL								
DATE COMPLETED (yy,mm,dd)								
ZONE MONITORED								
ZONE THICKNESS (FEET)								
ELEV. OF MEASURING POINT (NGVD)								
WELL DEPTH AT INSTALLATION (FEET BGS)								
GROUND SURFACE ELEVATION (NGVD)								
TOP OF SCREENED INTERVAL (NGVD)								
BOTTOM OF SCREENED INTERVAL (NGVD)								
SUMP LENGTH (FEET)								

DATE: _____

RECAP FORM 5 GROUND WATER MONITORING WELL SAMPLING EVENT SUMMARY

DATE:	Page of
AI#:	
Site Name:	

SITE MONITORING WELL NO.		
DNR I.D.		
Date Sampled (yy,mm,dd)		
Gallons purged		
Purge Method		
Sampling Equipment		
Depth to Ground Water (ft)		
Ground Water Elevation Prior to Purging (NGVD)		
Well Depth for this Sampling Event (NGVD)		
Comments		
Sampling Frequency		

RECAP FORM 6 SCREENING OPTION SUBMITTAL FOR SOIL

SOIL - Identification of the Limiting SS:

COC	o Soil _{SS} o Soil _{SSni} (mg/kg)	Soil _{SSGW} (mg/kg)	Leachate Result (mg/l)	Limiting SS (mg/kg)

SOIL – Identification of the AOIC:

COC	Maximum Concentration (mg/kg)	Location	Depth Interval (ft.)

SO SOIL RECAP ASSESSMENT:

COC	Limiting SS (mg/kg)	Maximum Concentration (mg/kg)	AOIC Exceeds LSS?

RECAP FORM 6 (Continued) SCREENING OPTION SUBMITTAL FOR SOIL

SO LEACHATE ANALYSIS (if applicable):

COC	Soil Concentration (mg/kg)	Leachate Result (mg/l)	Sample Location	Depth Interval (feet)	Groundwater SS (mg/l)	Adjusted Leachate SS ¹ (mg/l)

¹ Adjusted Leachate SS: GW1: leachate SS (mg/l) = GW₁ x 20

RECAP FORM 7 MANAGEMENT OPTION [] 1 [] 2 [] 3 SUBMITTAL FOR SOIL 0-15 FT BGS

SOIL 0-15 ft bgs - Identification of the Limiting RS:

COC	o Soil _i o Soil _{ni}	Additivity Divisor	Final o Soil _i o Soil _{ni}	o Soil _{GW1} o Soil _{GW2} o Soil _{GW3DW} oSoil _{GW3NDW}	oNO DAF o DAF2 o DAF3	Final Soil _{GW}	Soil _{sat}		Limiting RS
		-							
		-							

SOIL 0-15 ft bgs – Identification of the AOIC:

COC	Maximum Concentration (mg/kg)	95%UCL-AM Concentration (mg/kg)	AOI Concentration (mg/kg)

MO-2 SOIL 0-15 ft bgs RECAP ASSESSMENT:

COC	Limiting RS (mg/kg)	AOI Concentration (mg/kg)	AOIC Exceeds LRS?

RECAP FORM 7 (Continued) MANAGEMENT OPTION [] 1 [] 2 [] 3 SUBMITTAL FOR SOIL 0-15 FT BGS

MO[]2 []3 Leachate Analysis for Soil 0-15 ft bgs (if applicable):

COC	Soil Concentration (mg/kg)	Leachate Result (mg/l)	Sample Location	Depth Interval (feet)	Groundwater RS (mg/l)	Adjusted Leachate RS ¹ (mg/l)

¹ Adjusted Leachate RS:

GW1: leachate RS $(mg/l) = GW1 \times 20$

GW2: leachate RS $(mg/l) = GW2 \times 20 \times DF2$

GW3: leachate RS $(mg/l) = GW3 \times 20 \times DF3$

$\label{eq:recap} \mbox{RECAP FORM 8} \\ \mbox{MANAGEMENT OPTION [] 1 [] 2 [] 3 SUBMITTAL FOR SOIL > 15 FT BGS \\ \mbox{}$

SOIL > 15 ft bgs- Identification of the Limiting RS:

COC	o Soil _{GW1} o Soil _{GW2} o Soil _{GW3DW} o Soil _{GW3NDW}	oNO DAF o DAF2 o DAF3	Final Soil _{GW}	Soil _{sat}			Limiting RS
					, in the second second		

SOIL > 15 ft bgfs – Identification of the AOIC:

COC	Maximum Concentration (mg/kg)	95%UCL-AM Concentration (mg/kg)	AOI Concentration (mg/kg)

MO-2 SOIL > 15 ft bgs RECAP ASSESSMENT:

COC	Limiting RS (mg/kg)	AOI Concentration (mg/kg)	AOIC Exceeds LRS?
_			

RECAP FORM 8 (Continued) MANAGEMENT OPTION [] 1 [] 2 [] 3 SUBMITTAL FOR SOIL > 15 FT BGS

MO [] 2 [] 3 Leachate Analysis for Soil > 15 ft bgs (if applicable):

COC	Soil Concentration (mg/kg)	Leachate Result (mg/l)	Sample Location	Depth Interval (feet)	Groundwater RS (mg/l)	Adjusted Leachate RS ¹ (mg/l)

¹ Adjusted Leachate RS:

GW1: leachate RS $(mg/l) = GW1 \times 20$

GW2: leachate RS $(mg/l) = GW2 \times 20 \times DF2$

GW3: leachate RS $(mg/l) = GW3 \times 20 \times DF3$

RECAP FORM 9 SCREENING OPTION SUBMITTAL FOR GROUNDWATER

GROUNDWATER - Identification of the SS:

COC	GW _{SS} (mg/l)

GROUNDWATER – Compliance Concentration:

COC	Compliance Concentration (mg/l)	Location

SO GROUNDWATER RECAP ASSESSMENT:

COC	GW _{SS} (mg/l)	Compliance Concentration (mg/l)	CC Exceeds SS?

RECAP FORM 10 MANAGEMENT OPTION [] 1 [] 2 [] 3 SUBMITTAL FOR GROUNDWATER

GROUNDWATER - Identification of the Limiting RS:

COC	o GW ₁ o GW ₂ o GW _{3DW} o GW _{3NDW}	oNO DAF o DAF2 o DAF3	Final o GW ₁ o GW ₂ o GW _{3DW} o GW _{3NDW}	Solubility (Water _{sol})		Limiting RS

GROUNDWATER – Compliance Concentration:

COC	Compliance Concentration (mg/l)	Location

MO-2 GROUNDWATER RECAP ASSESSMENT:

COC	Limiting RS (mg/l)	Compliance Concentration (mg/l)	CC Exceeds LRS?

RECAP FORM 11 ECOLOGICAL CHECKLIST

Section 1 - Facility Information

1.	Name of facility:				
2.	Location of facility:				
	Parish:				
3.	Mailing address:				
4.	Type of facility and/or operations associated with AOC:				
5.	Name of AOC or AOI:				
6.	If available, attach a USGS topographic map of the facility and/or photographs of the release site and surrounding areas.				
Secti	on 2 - Land Use Information				
1.	Describe land use at the AOC/AOI:				
2.	Describe land use near the facility:				
3.	Provide the following information regarding the nearest surface water body which has been impacted or has the potential to be impacted by COC migrating from the AOC/AOC:				
a)	Name of the surface water body:				
b)	Type of surface water body:				
	[] freshwater river or stream [] freshwater swamp/marsh/wetland [] saltwater or brackish swamp/marsh/wetland [] lake or pond [] bayou or estuary [] drainage ditch [] other:				
c)	Designated use of the surface water body segment/subsegment (LAC 33:IX):				
d)	Distance from the AOC/AOI to nearest surface water body:				

4.	Do any potentially sensitive environmental areas exist in proximity to the site, e.g., federal and state parks, federal or state wildlife refuges or management areas, national and state monuments, wetlands, etc? [] Ye [] No				
	If yes, explain:				
Section	on 3 - Release Information				
1.	Nature of the release:				
2.	Location of the release (within the facility):				
3.	Location of the release with respect to the facility property boundaries:				
4.	Constituents known or suspected have been released:				
5.	Indicate which media are known o	or suspected to be impacted and if sampling data are available:			
	 [] soil 0 - 3 feet bgs [] soil 0 - 15 feet bgs [] soil >15 feet bgs [] groundwater [] surface water/sediment 	[] yes [] no			
6.	Has migration occurred outside the facility property boundaries? [] yes [] no If yes, describe the designated use of the offsite land impacted:				

Section 4 - Criteria for No Further Ecological Assessment

If the AOI meets **all** of the criteria presented below, then typically no further ecological evaluation shall be required. The AOI must meet these criteria based on current baseline site conditions (i.e., shall not consider future remedial actions or institutional or engineering controls).

- (1) The area of impacted soil is approximately 5 acres or less in size (based on the AOI identified for the human health assessment) and it is not expected that the COC will migrate such that the soil AOI becomes greater than 5 acres in size;
- (2) There is not a current release or demonstrable long-term threat of release (via runoff or groundwater discharge) of COC from the AOI to a surface water body;
- (3) There is no evidence that recreational species, commercial species, threatened or endangered species, and/or their habitats are currently being exposed, or expected to be exposed, to COC present at or migrating from the AOI; and
- (4) There are no obvious impacts to ecological receptors or their habitats and none are expected in the future.

If the AOI does not meet all of the criteria, a screening level ecological risk shall be conducted. The Submitter shall make the initial decision regarding whether or not a screening level ecological risk assessment is warranted based on compliance of the AOI with criteria listed above. After review of the ecological checklist and other available site information, the Department will make a final determination on the need for a screening level ecological risk assessment. If site conditions at the AOI change such that one or more of the criteria are not met, then a screening level ecological risk assessment shall be conducted.

[] yes [] no

Is further ecological evaluation required at this AOI?

This determination is subject to Department concurrence.
Section 5 - Site Summary
The ecological checklist submittal shall include a site summary that presents sufficient information to verify that the AOI meets or does not meet the criteria for further assessment.
Section 6 - Submitter Information
Date:
Name of person submitting this checklist:
Affiliation:
Signature: Date:
Additional Preparers:

RECAP FORM 12 NO FURTHER ACTION AT THIS TIME (NFA-ATT) DOCUMENTATION

Section 1 - Facility Information

	Media Investigated	Media Impacted	Media Remediated
5.	Media investigated, impacted, remed	diated:	
4.	Briefly describe the Site Investigation submitted to the LDEQ	on(s) that have been performed and to form the basis	d provide a final date(s) of each report of a NFA-ATT decision)
3.	List the Constituents of Co	oncern (COCs) known or	suspected have been released
2.	Describe the method(s) by	which the source of releas	se was removed or mitigated?
1.	Nature of the release and date it occ	curred (if known):	
Section	2 - Release Information		
	each use/activity:		<u> </u>
7.			AOI is located and the time periods for
6.	Name of AOI:		
5.	Mailing address:		
4.	Parish:		
3.	Physical location of facility:		
2.	Facility LDEQ Agency Interest (AI)	Number:	
1.	Name of facility:		

Surface soil []

Subsurface soil [

Groundwater 1

Surface soil []

Subsurface soil

Groundwater 1

LDEQ RECAP 2013

Surface soil []

Subsurface soil [

Groundwater 1 []

	Exterior soil gas []	Exterior soil gas []				
	Sub-slab gas []	Sub-slab gas []				
	Surface water []	Surface water []				
	Sediment []	Sediment []				
	Biota []	Biota []				
6.	Groundwater classification(s): GW	$_{1}$ [] GW_{2} [] $\mathrm{GW}_{\mathrm{3DW}}$ [] $\mathrm{GW}_{\mathrm{3DW}}$	V _{3NDW} []			
	Yield and method of determination					
	(b) Total Dissolved Solids (TDS):					
(c)	Groundwater use within one mile of	the AOI, including nearest well:				
7.	Management Option(s) Applied at the	he AOI:				
	[]SO []MO-1 []MO-2	[] MO-2 Appendix H Category	[] MO-3			
8.	Current land use at the AOI: [] No	on-Industrial [] Industrial - NA	AICS:			
9.	9. RECAP Standards applied to the AOI are: [] Non-Industrial [] Industrial					
10.	Describe the types, quantities, disp Waste (IDW):	osal locations, and other relevan	t information for Investigation Derived			
11.	Cite where waste manifest or othe submittals (if applicable):		provided to the LDEQ in this or prior			
Section	3 – Remedial Action (if not applical	ble, skip this section and proceed	to Section 4)			
1.	Were remedial actions (emergency,	interim, or other) conducted? []	Yes [] No			
2.	•	-	os were taken to verify that the source has the source has the meet RECAP/alternative remediation			
3.			on including any off-site disposal of tions, or other relevant information			

Groundwater 2 []

Indoor air [

Groundwater 3DW []

Groundwater 3NDW []

Groundwater 2 []

Sediment []

Groundwater 3DW [

Groundwater 3NDW []

Groundwater 2 []

Indoor air [

Groundwater 3DW []

Groundwater 3NDW []

N 1) de G	ote: l resid efined roun	Institutional Controls (if not applicable, skip this section and proceed to Section 5) Institutional Controls in the form of Conveyance Notification are required for all properties having dual constituent concentrations in soil that are greater than the acceptable exposure concentration I for non-industrial (residential) land use (Soil _{ni}); and 2) residual constituent concentrations in a dwater 2 Zone (within property boundaries) that exceeds the GW ₂ RS (without the application of a n factor). Further information on Institutional Controls may be found in RECAP Section 2.6.3.
1.	Ar	e Institutional Controls required or in place? [] Yes [] No
2.	Br file	iefly discuss the approved institutional controls and identify the parish in which the controls have been ed:
2		
3.		ovide a citation(s) where copies of the Institutional Control documents(s) certified by the Parish Clerk of urt was provided to the LDEQ in this or prior submittals:
	Co	
	Co — n 5 -	Other Closure Requirements Briefly discuss monitoring well plugging and abandonment and/or plugging of investigation boreholes and

4. Provide the citation where waste manifest or other disposal documentation was provided to the LDEQ in this

The impacted media, COC, AOI Concentration (AOIC), and limiting RECAP standards established for this site are to be listed in the following table. Note that this table is to only be used for COCs positively detected and evaluated.

Medium	Constituent	Soil AOIC or	Basis of	Limiting RS	Management	Basis of
	of Concern	Groundwater	AOIC		Option*	LRS
		CC	or CC			
Soil 0'-15"	Example COC	204 mg/kg	Max	550 mg/kg	SO	$Soil_{SSni}$
Groundwater 1	Example COC	0.002 mg/l	Max	2 mg/l	MO-1	GW_I

Groundwater 3	Example COC	62.6 mg/l	95%UCL	756 mg/l	MO-2	GW_{3DW}

^{*}If LRS is based on an MO-2 Appendix H evaluation, indicate the site category, e.g., Appendix H MO-2 Category

Section 7 - Submitter Information

1.	Date:	
2.	Name of person submitting this checklist:	
3.	Affiliation:	
4.	Signature:	Date:
5.	Additional Preparers:	